



UNIVERSITY OF TORONTO

DIVISION OF UNIVERSITY EXTENSION

PRE-UNIVERSITY COURSES  
1970-1971

Enquiries regarding the courses described in this calendar should be directed to:

Pre-University Courses,  
Division of University Extension,  
84 Queen's Park,  
Toronto 181, Ontario.

Telephone 928-2405

The Division of University Extension reserves the right to withdraw any course listed in this calendar. Enrolment in all courses is limited.

SCHEDULE OF DATES 1970-71

WINTER SESSION

September 1	Last day to apply for admission to the Pre-University Courses that begin on October 5. Fees in full must accompany the application for admission.
October 5	Lectures begin.
October 12	Thanksgiving Day. Lectures will not be held.
November 5	Last day to withdraw and receive a partial refund of fees.
December 18	Last day of lectures in first term.
January 4	Second term begins.
February 14 - 20	Reading week. Lectures will not be held.
March 12	Last day of lectures.
March 15 - 19	Examinations.
April 1	Last day for new students to apply for admission to the summer evening session. Candidates seeking admission to the part-time degree programme in the Faculty of Arts and Science, the Faculty of Applied Science and Engineering, and the School of Physical and Health Education may apply for admission to the summer evening session.

May 15 Last day for new students to apply for admission to the summer day session. Candidates seeking admission to the part-time degree programme in the Faculty of Arts and Science and the School of Physical and Health Education may apply for admission to the summer day session

May 17 - August 20 Summer evening session.

June 1 Last day for new students to apply for admission to the 1971-72 full-time programme in all faculties.

July 5 - August 20 Summer day session.

August 1 Last day for new students to apply for admission to the winter evening session. Candidates seeking admission to the part-time degree programme in the Faculty of Arts and Science, the Faculty of Applied Science and Engineering, the School of Nursing, and the School of Physical and Health Education may apply for admission to the winter evening session.

#### WINTER-SPRING SESSION

December 1 Last day to apply for admission to the Pre-University Courses that begin on January 4. Fees in full must accompany the application for admission.

January 4 Lectures begin.

February 4 Last day to withdraw and receive a

partial refund of fees.

- March 15 - 19      Reading week. Lectures will not be held.
- May 15              Last day for new students to apply for admission to the summer day session. (See page 2.)
- May 24              Victoria Day. Lectures will not be held.
- May 28              Last day of lectures.
- May 31 - June 4      Examinations.
- June 1              Last day for new students to apply for admission to the 1971-72 full-time programme in all faculties.
- July 5 - August 20   Summer day session.
- August 1             Last day for new students to apply for admission to the winter evening session. (See page 2.)
- February 1           Last day to apply for admission to the Pre-University Courses that begin on March 1. Fees in full must accompany the application for admission.
- March 1              Lectures begin.
- April 1              Last day to withdraw and receive a partial refund of fees.
- May 24 - 28         Reading week. Lectures will not be held.

June 1	Last day for new students to apply for admission to the 1971-1972 full-time programme in all faculties.
July 1	Dominion Day. Lectures will not be held.
July 23	Last day of lectures.
July 26 - 30	Examinations.
August 1	Last day for new students to apply for admission to the winter evening session. (See page 2.)

#### SUMMER DAY SESSION

June 1	Last day to apply for admission to the Pre-University Courses that begin on July 5. Fees in full must accompany the application for admission.
July 5	Lectures begin.
July 17	Last day to withdraw and receive a partial refund of fees.
August 1	Last day for new students to apply for admission to the winter evening session. (See page 2.)
August 2	Civic holiday. Lectures will not be held.
August 13	Last day of lectures.
August 16	Examinations.



Pre-University Courses are designed to enable students who have not completed Grade 13 or its equivalent to become eligible to apply for admission to the University of Toronto as mature students. Effective the summer session of 1971, a candidate of mature age (twenty-four years of age or older on October 1 of the Winter Session or July 15 of the Summer Session) who has lived in Ontario for a minimum period of one year and is normally a resident of Ontario, may request special consideration for admission if he has obtained high standing in at least one Pre-University Course offered through the Division of University Extension (or an equivalent course) and obtains standing in such other tests as may be required. His previous academic record will also be taken into account. A birth certificate must be submitted by a candidate seeking admission as a mature student.

A candidate wishing to apply for admission as a mature student should consult the Office of Admissions about his eligibility before undertaking one of the Pre-University Courses, since successful completion of a Pre-University Course does not in itself ensure admission. Courses with scientific content such as those offered by the professional faculties often have additional pre-requisites. This information may also be obtained from the Office of Admissions.

N.B. Students who have attended a post-secondary institution should not undertake Pre-University courses, for successful completion of these courses does not normally improve the eligibility for admission of such students.

Students should undertake Pre-University courses that fulfil the admission requirements of the Faculty, School, or Certificate Programme they intend to enter. Admission requirements for mature students are as follows:

#### FACULTY OF ARTS AND SCIENCE

Candidates must offer high standing in at least one Pre-University Course (or an equivalent course).

Students who intend to study the Humanities (Classical Studies, East Asian Studies, English, Fine Art, French, German, History, Islamic Studies, Italian and Hispanic Studies, Religious Studies, and Slavic Languages and Literatures) or the Social Sciences (Anthropology, Geography, Commerce, Economics, Political Science, Psychology, and Sociology) at the university level are advised to undertake either Pre-University English or Pre-University History. Students who intend to study the Natural Sciences (Astronomy, Biochemistry, Biology, Botany, Chemistry, Geology, Microbiology, Physics, Physiology, and Zoology) or Mathematics at the university level are advised to undertake Pre-University Mathematics. In addition, Pre-University Chemistry or Pre-University Physics should be taken if the study of these subjects is intended at the university level.

#### FACULTY OF APPLIED SCIENCE AND ENGINEERING

Candidates must offer high standing in three Pre-University Courses (or their equivalent), to include Chemistry; Mathematics; Physics.



## SCHOOL OF NURSING

### Degree Course for Graduates of Diploma Schools of Nursing

Candidates must offer high standing in two Pre-University Courses (or their equivalent), one of which must be Chemistry, the other of which should be English or History.

### Public Health Nursing Certificate

Candidates must offer high standing in one Pre-University Course (or an equivalent course).

## SCHOOL OF PHYSICAL AND HEALTH EDUCATION

Candidates will be considered on an individual basis after a personal interview to determine suitability for admission.

## CERTIFICATE PROGRAMMES

Business

Public Administration

Criminology

Personnel and Industrial Relations

Candidates must offer high standing in one Pre-University course (or an equivalent course).

Candidates are advised to undertake Pre-University English or Pre-University Mathematics.

Information on other courses of instruction may be obtained by referring to the calendar of the appropriate Faculty or School, or by consulting one of the academic counsellors of the Division of University Extension.

## PRE-UNIVERSITY CHEMISTRY

A preparation for the study of Chemistry at the university level. Emphasis is on physical chemistry rather than on descriptive inorganic chemistry. Energy effects in chemical reactions, reaction rates, chemical and ionic equilibria, oxidation-reduction reactions, electron arrangement and the periodic table, the chemical bond in molecules in gas phase, in solids, and in liquids, are considered. The course concludes with an introduction to organic chemistry.

No experimental work is done by the student, but certain techniques and experiments are demonstrated.

Although some time is spent in reviewing elementary principles of chemistry, knowledge of Grade 12 Chemistry or its equivalent is assumed.

TEXT: F. A. Cotton, L. D. Lynch, Chemistry, An Investigative Approach, Nelson, 1968.

Tues. and Thurs., 7:00-9:00 p.m., Oct. 5 - March 12  
Tues. and Thurs., 7:00-9:00 p.m., March 1 - July 23

## PRE-UNIVERSITY ENGLISH

A survey of English literature in considerable depth. At least six hundred lines of poetry, four novels, and four plays will be considered. Students will have an opportunity, through written assignments and essays, to improve their composition skills.

The course is similar to Grade 13 English, and therefore requires performance at the level to be expected of students preparing to enter university.

Pre-University English is a literature course, not a language course, and should not be undertaken by students who are learning English as a second language.

TEXTS: Hawthorne, The Scarlet Letter, Norton Critical Edition.  
Miller, Death of a Salesman, MacMillan.

These texts will be studied by all classes.  
A list of the other required texts will be mailed to successful applicants.

Mon. and Wed., 7:00-9:00 p.m., Oct. 5 - March 12  
Tues. and Thurs., 2:00-4:00 p.m., Oct. 5 - March 12  
(Please indicate evening or day classes on the application.)  
Tues. and Thurs., 7:00-9:00 p.m., Jan. 4 - May 28  
Mon. and Wed., 7:00-9:00 p.m., March 1 - July 23  
Mon. to Fri., 9:00-12:00 a.m., July 5 - Aug. 13

## PRE-UNIVERSITY HISTORY

Selected topics in the social, political, intellectual, and economic history of Canada. An introduction to history as a discipline and a consideration of its relationship to other academic disciplines. Students will have an opportunity, through written assignments and essays, to improve their composition skills.

The course is similar to Grade 13 History, and therefore requires performance at the level to be expected of students preparing to enter university.

TEXTS: Reading lists will be mailed to successful applicants.

Tues. and Thurs., 7:00-9:00 p.m., Oct. 5 - March 12  
Mon. and Wed., 7:00-9:00 p.m., Jan. 4 - May 28  
Tues. and Thurs., 7:00-9:00 p.m., March 1 - July 23  
Mon. to Fri., 9:00-12:00 a.m., July 5 - Aug. 13

## PRE-UNIVERSITY MATHEMATICS

A preparation for the study of mathematics at the university level. Most of the topics which are studied in Grade 13 Mathematics A, as well as a few from Mathematics B, are covered. The modern approach to mathematics ("New Math") will be emphasized. Students who successfully complete the course will receive a preparation which will be suitable for entering courses for which Mathematics A is a prerequisite.

In addition, the mathematics course is intended to assist undergraduates who intend to enter a graduate programme which involves the use of statistics and calculus and who feel that they need a stronger foundation in mathematics.

After a brief introduction to the methods of modern mathematics, the class will undertake a consideration of the number system, algebraic equations and inequalities, and the standard results of analytic geometry. The basic concept of function will be introduced (with particular investigation of exponential logarithmic and trigonometric functions) which leads naturally to a study of calculus.

Students are expected to be able to manipulate algebraic expressions and to solve simple algebraic equations. They should have some familiarity with the results of Euclidean geometry. It is not expected that students will be familiar with the modern terminology of mathematics ("New Math"). Students with less than Ontario Grade 12 Mathematics are advised not to take this course.

TEXT: C. B. Allendoerfer, C. O. Oakley, Principles of Mathematics, McGraw-Hill.

Mon. and Wed., 7:00-9:00 p.m., Oct. 5 - March 12

Mon. and Wed., 7:00-9:00 p.m., Jan. 4 - May 28



## PRE-UNIVERSITY PHYSICS

Providing an introduction to "modern physics" and a preparation for the study of physics at the university level, this course includes most of the topics found in Grade 13 Physics. Throughout the course, emphasis will be placed on understanding the basic concepts of physics. There will be ample opportunity to develop skill in problem solving, but no calculus will be used.

After a brief survey of physics and establishing the basis for measurements, the class will undertake a fairly detailed study of mechanics with a brief section on satellite motion. Mechanical vibrations then form an appropriate introduction to wave motion and sound. Heat, electricity, magnetism and light follow. The problems arising out of the dual nature of light form a useful basis for introducing modern physics with current concepts on the nature of an atom, the structure of its nucleus, and radioactivity.

Previous studies in physics, while helpful, are not mandatory. However, students are expected to be able to manipulate algebraic expressions and to solve simple algebraic equations. A knowledge of simple trigonometrical relationships - sine, cosine, tangent - will be helpful but not essential as these will be defined when required. It will be assumed that students have at least Grade 12 Mathematics or its equivalent.

TEXT: G. Gamow, J. M. Cleveland, PHYSICS: Foundations and Frontiers, 2nd Ed., Prentice-Hall, 1969.

Mon. and Wed., 7:00-9:00 p.m., Oct. 5 - March 12  
Tues. and Thurs., 7:00-9:00 p.m., March 1 - July 23



## DIVISION OF UNIVERSITY EXTENSION

The Division of University Extension offers part-time degree programmes in Arts and Science, Applied Science and Engineering, Nursing, and Physical and Health Education.

The Bachelor of Arts and Bachelor of Science degrees may be obtained through part-time study.

The first year of the Engineering programme; the first year of the Physical and Health Education programme; the first and second years of the Nursing programme may be completed through part-time study.

The second, third and fourth years of the Engineering programme; the second, third and fourth years of the Physical and Health Education programme; the third year of the Nursing programme must be completed through full-time study.

Applications for admission to the Faculty of Applied Science and Engineering may be submitted for the Winter Evening Session and the Summer Evening Session; applications for admission to the School of Nursing may be submitted for the Winter Evening Session.

### Winter Evening Session

September 21, 1970 - May 7, 1971

Deadline for application for admission: August 1, 1970

One course normally involves one two-hour lecture each week.

### Summer Evening Session

May 17, 1971 - August 20, 1971

Deadline for application for admission: April 1, 1971

One course normally involves two, two and one half-hour lectures each week.

Summer Day Session

July 5, 1971 - August 20, 1971

Deadline for application for admission: May 15, 1971

One course normally involves one two-hour lecture each weekday.

Part-time students may enrol for courses in these three sessions, to a maximum of three courses in the winter evening session, and a maximum of two courses in the summer sessions.

## STUDENT SERVICES

**ACADEMIC COUNSELLING** Students enrolled in Pre-University courses should meet with an academic counsellor in the Division of University Extension to discuss their academic programme. Counselling hours are arranged to meet the requirements of each student and are held at 84 Queen's Park. For counselling appointments, telephone 928-2405.

**WRITING LABORATORY** The Writing Laboratory is a service designed to help students write more effectively. The staff of the Writing Laboratory will work with individual students as editorial consultants, analyzing their written work to help them overcome problems in the organization of ideas, sentence structure, word choice and the documentation of research sources. With the exception of an introductory lecture, the work of the Writing Laboratory is conducted in individual interviews on the basis of work in progress. Appointments for interviews should be arranged by telephoning 928-8600, or 928-2847.

## BOOKSTORE FACILITIES

### Winter Session

Books may be purchased at the Bookroom and Textbook Store (Bancroft and Huron Streets) on the St. George Campus. In addition to the regular hours of service from 8:45 A.M. - 5:00 P.M. Monday - Friday, the bookstore will be open in the evening as follows:

September 21 - October 3

Monday-Thursday: 8:30 A.M. - 9:00 P.M.

Friday: 8:30 A.M. - 5:00 P.M.

Saturday, Sept. 26 and Saturday, Oct. 3

11:00 A.M. - 3:00 P.M.

## GENERAL REGULATIONS

Information on the location of specific classes will be mailed to successful applicants.

The fee for each Pre-University Course is \$100.00. Fees in full must accompany the application for admission. Please make cheques payable to the University of Toronto.

In order to become eligible for a partial refund of fees on withdrawing from a course, the student must write to the Division of University Extension and enclose his receipt. Requests for partial refund of fees must be received by the dates listed in the "Schedule of Dates" section of this calendar. After these dates, requests for partial refund of fees will be granted only for medical or compassionate reasons.

Supplemental examination privileges are granted only for medical or compassionate reasons.

Upon successful completion of a Pre-University Course, students must submit an application for admission to the Office of Admissions by the dates listed in the "Schedule of Dates" section of this calendar. Applications are available at the Division of University Extension and the Office of Admissions.

Results achieved in Pre-University Courses are mailed to candidates and are reported to the Office of Admissions by the Division of University Extension. Requests for additional transcripts must be submitted in writing to the Division of University Extension.

TIMETABLE

October 5 - March 12

Chemistry	Tuesdays and Thursdays	7:00 - 9:00 p.m.
English	Mondays and Wednesdays	7:00 - 9:00 p.m.
English	Tuesdays and Thursdays	2:00 - 4:00 p.m.
History	Tuesdays and Thursdays	7:00 - 9:00 p.m.
Mathematics	Mondays and Wednesdays	7:00 - 9:00 p.m.
Physics	Mondays and Wednesdays	7:00 - 9:00 p.m.

January 4 - May 28

English	Tuesdays and Thursdays	7:00 - 9:00 p.m.
History	Mondays and Wednesdays	7:00 - 9:00 p.m.
Mathematics	Mondays and Wednesdays	7:00 - 9:00 p.m.

March 1 - July 23

Chemistry	Tuesdays and Thursdays	7:00 - 9:00 p.m.
English	Mondays and Wednesdays	7:00 - 9:00 p.m.
History	Tuesdays and Thursdays	7:00 - 9:00 p.m.
Physics	Tuesdays and Thursdays	7:00 - 9:00 p.m.

July 5 - August 13

English	Monday to Friday	9:00 - 12:00 a.m.
History	Monday to Friday	9:00 - 12:00 a.m.

